Title (en)
IMPEDANCE SENSING

Title (de)
IMPEDANZMESSUNG

Title (fr)
DÉTECTION D'IMPÉDANCE

Publication
EP 3319506 A1 20180516 (EN)

Application
EP 16735754 A 20160613

Priority
• US 201514795703 A 20150709
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Abstract (en)
[origin: WO2017007574A1] This disclosure provides systems, methods and apparatus for performing signal processing in impedance sensing applications, and more specifically, for recovering data from an amplitude-modulated signal. In one aspect, a device includes a sensing circuit operable to sense an amplitude-modulated signal having a carrier frequency. The device also includes a mixer operable to mix the amplitude-modulated signal with a mixing signal having a mixing frequency to provide a frequency-downshifted signal having an intermediate frequency less than the carrier frequency. The device also includes a filter operable to filter the frequency-downshifted signal to provide a filtered signal. The device further includes a sampler operable to undersample the filtered signal at an undersampling frequency to provide a digital signal, the digital signal being representative of a modulating signal.

IPC 8 full level
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A61B 5/6801 (2013.01 - KR US); **A61B 5/6825** (2013.01 - KR); **A61B 5/7225** (2013.01 - EP KR US); **A61B 5/725** (2013.01 - KR US);
A61B 5/0295 (2013.01 - EP US); A61B 5/6825 (2013.01 - EP US); A61B 2560/0214 (2013.01 - KR US); A61B 2562/04 (2013.01 - KR US)

Citation (search report)
See references of WO 2017007574A1

Cited by
US11445932B2

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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JP 7280409 B2 20230523; KR 20180027500 A 20180314; US 11471109 B2 20221018; US 2017007186 A1 20170112

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